

Approved Grants for Projects to Reduce Emissions from Diesel Engines

Carl Moyer Program and Mobile Source Incentive Fund*

Project Number	Project Sponsor	Project Description	Proposed Grant Award	# of Engines Funded	NOx Emission Reductions (tons/year)	PM Emissions Reductions (tons/year)	CMP C-E** (\$/ton) NOx + 10 x PM
04MOY121	Peoples Fuel Cooperative	Repower one delivery truck	\$15,040	1	0.36	0.02	\$1,768
04MOY03	Amtrak	Replace one switcher locomotive w/ "Green Goat" diesel-hybrid locomotive	\$800,000	1	7.54	0.25	\$6,700
04MOY150	Bode Concrete, LLC	Repower two concrete transport mixers	\$88,144	2	1.70	0.08	\$7,625
04MOY129	Allied Concrete Mix Service	Repower two concrete delivery mixers	\$88,144	2	1.54	0.06	\$9,064
04MOY151	Bode Concrete, LLC	Repower four concrete transport mixers	\$176,288	4	2.76	0.09	\$10,558
04MOY04	Richmond Pacific Railroad	Install retrofit kit to reduce emissions from one switcher locomotive	\$148,000	1	1.67	0.04	\$13,554
04MOY132	San Francisco Muni	Repower 12 articulated buses with reconditioned engines	\$199,992	12	2.64	0.00	\$12,196
04MOY135	NorCal Waste (Golden Gate)	Install Level 3 PM/NOx emission control systems on 15 refuse collection trucks	\$140,367	15	2.25	0.00	\$13,600
04MOY136	NorCal Waste (Sunset Scavenger)	Install Level 3 PM/NOx emission control systems on 61 refuse collection trucks	\$570,826	61	9.15	0.00	\$13,600
04MOY181	Blueline Transfer, Inc.	Install Level 3 PM/NOx emission control system on one refuse transfer truck	\$19,000	1	0.23	0.01	\$11,506
04MOY131	Waste Management, Inc	Install Level 3 PM/NOx emission control systems on 33 refuse collection trucks	\$346,500	33	5.94	0.00	\$12,717
04MOY17	Golden Gate Ferry	Repower two auxiliary engines in ferry Marin	\$20,000	2	7.20	0.42	\$282
04MOY18	Vortex Marine Construction	Repower primary crane drive on derrick barge Vengeance	\$128,198	1	15.03	0.78	\$471
04MOY21	Vortex Marine Construction	Repower primary hydraulic system drive on derrick barge Vantage	\$66,514	1	7.45	0.39	\$493
04MOY19	Vortex Marine Construction	Repower deck winch drive on derrick barge Vengeance	\$52,955	1	5.61	0.31	\$512
04MOY20	Vortex Marine Construction	Repower primary crane drive on derrick barge Vantage	\$111,223	1	11.82	0.62	\$519
04MOY26	Brusco Tug & Barge	Install retrofit kit on two main engines in tugboat Western Comet	\$327,500	2	96.72	2.15	\$587
04MOY31	Westar Marine Services	Repower two main engines in crew boat Ranger	\$130,000	2	13.92	1.18	\$592
04MOY32	Westar Marine Services	Repower two main engines in crew boat Hawk	\$130,000	2	13.92	1.18	\$592
04MOY25	Brusco Tug & Barge	Repower two main engines in tugboat Amy Brusco	\$346,000	2	37.40	2.41	\$658
04MOY28	Westar Marine Services	Repower two main engines in crew boat Zenith	\$120,000	2	9.30	0.79	\$818
04MOY29	Westar Marine Services	Repower two main engines in crew boat Reliance	\$120,000	2	9.30	0.79	\$818
04MOY30	Westar Marine Services	Repower two main engines in crew boat Scout	\$120,000	2	9.30	0.79	\$818
04MOY27	Westar Marine Services	Repower two main engines in tugboat Apollo	\$750,000	2	24.62	7.10	\$918
04MOY23-A	Hornblower Cruises	Repower two main engines in MV Spirit of Plattsburg	\$216,058	2	10.36	1.39	\$1,043
04MOY22-B	Hornblower Cruises	Repower two auxiliary engines in MV Monte Carlo	\$70,815	2	4.08	0.25	\$1,252
04MOY22-A	Hornblower Cruises	Repower two main engines in MV Monte Carlo	\$216,058	2	4.70	1.20	\$1,517
04MOY86	Independent Construction	Tier 2 Engine Repower: 657B Scraper: Unit #57011	\$171,605	1	8.62	0.42	\$1,564
04MOY124	Harold Smith and Son, Inc.	Repower one dump truck: Unit #258	\$21,113	1	0.86	0.07	\$1,573
04MOY85	Independent Construction	Tier 2 Engine Repower: 657B Scraper: Unit #57010	\$171,605	1	8.10	0.40	\$1,663
04MOY82	Independent Construction	Tier 2 Engine Repower: 657B Scraper: Unit #57007	\$171,605	1	7.80	0.38	\$1,728
04MOY77	Independent Construction	Tier 2 Engine Repower: 657B Scraper: Unit #57002	\$171,605	1	7.54	0.37	\$1,788
04MOY76	Independent Construction	Tier 2 Engine Repower: 657B Scraper: Unit #57001	\$171,605	1	7.35	0.36	\$1,834
04MOY80	Independent Construction	Tier 2 Engine Repower: 657B Scraper: Unit #57005	\$171,605	1	7.33	0.36	\$1,840
04MOY87	Independent Construction	Tier 2 Engine Repower: 657B Scraper: Unit #57012	\$171,605	1	7.22	0.35	\$1,866
04MOY81	Independent Construction	Tier 2 Engine Repower: 657B Scraper: Unit #57006	\$171,605	1	7.10	0.35	\$1,898

Note: Shaded projects fulfill the District's AB1390 criteria and are ranked by 1) AB1390 score, and 2) cost-effectiveness.

*Grants will be funded with Carl Moyer Program funds and the Air District's Mobile Source Incentive Fund (MSIF) revenues.

**Cost-effectiveness = funding requested ÷ estimated emission reductions. PM emissions are weighted by a factor of 10. Emission Reductions = [NOx reduced + (PM reduced x 10)] x years of project life.

Approved Grants for Projects to Reduce Emissions from Diesel Engines

Carl Moyer Program and Mobile Source Incentive Fund*

Project Number	Project Sponsor	Project Description	Proposed Grant Award	# of Engines Funded	NOx Emission Reductions (tons/year)	PM Emissions Reductions (tons/year)	CMP C-E** (\$/ton) NOx + 10 x PM
04MOY64	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51015	\$112,352	1	4.60	0.23	\$1,919
04MOY79	Independent Construction	Tier 2 Engine Repower: 657B Scraper: Unit #57004	\$171,605	1	6.64	0.33	\$2,030
04MOY125	Harold Smith and Son, Inc.	Repower one dump truck: Unit #258	\$21,226	1	0.80	0.04	\$2,070
04MOY70	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51021	\$112,352	1	4.24	0.21	\$2,083
04MOY75	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51026	\$112,352	1	4.18	0.20	\$2,113
04MOY61	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51011	\$112,352	1	4.10	0.20	\$2,158
04MOY72	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51023	\$112,352	1	4.04	0.20	\$2,184
04MOY83	Independent Construction	Tier 2 Engine Repower: 657B Scraper: Unit #57008	\$171,605	1	6.08	0.30	\$2,216
04MOY58	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51008	\$112,352	1	3.91	0.19	\$2,259
04MOY23-B	Hornblower Cruises	Repower two auxiliary engines in MV Spirit of Plattsburg	\$59,380	2	1.96	0.11	\$2,300
04MOY34	Red & White Fleet	Repower two main engines in ferry Royal Prince	\$275,000	2	6.00	1.22	\$2,383
04MOY123	Harold Smith and Son, Inc.	Repower one water truck: Unit #227	\$24,913	1	0.65	0.05	\$2,440
04MOY78	Independent Construction	Tier 2 Engine Repower: 657B Scraper: Unit #57003	\$171,605	1	5.48	0.27	\$2,461
04MOY06	Blue & Gold Fleet	Repower one auxiliary engine in ferry Golden Bear	\$28,203	1	0.73	0.06	\$2,519
04MOY46	Independent Construction	Tier 2 Engine Repower: 641B Scraper: Unit #41002	\$112,352	1	3.49	0.17	\$2,528
04MOY35	Independent Construction	Tier 2 Engine Repower: 637D Scraper: Unit #20010	\$193,094	1	6.19	0.24	\$2,630
04MOY56	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51005	\$112,352	1	3.33	0.16	\$2,650
04MOY59	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51009	\$112,352	1	3.31	0.16	\$2,666
04MOY33	Seaworthy Projects, LLC	Repower two main engines in towing vessel Hero	\$150,000	2	3.92	0.25	\$2,717
04MOY44	Independent Construction	Tier 2 Engine Repower: 637D Scraper: Unit #37017	\$193,094	1	5.84	0.23	\$2,789
04MOY99	Independent Construction	Tier 1 Engine Repower: 657E Scraper: Unit #57033	\$146,023	1	5.21	0.09	\$2,796
04MOY103	Independent Construction	Tier 3 Engine Repower: 657E Scraper: Unit #57032	\$287,000	1	8.54	0.30	\$2,900
04MOY112	DeSilva Gates Construction	Tier 2 Engine Repower: 637D Scraper: Unit #117303	\$177,594	1	4.92	0.19	\$3,042
04MOY65	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51016	\$112,352	1	2.86	0.14	\$3,086
04MOY113	DeSilva Gates Construction	Tier 2 Engine Repower: 637D Scraper: Unit #117304	\$177,594	1	4.81	0.19	\$3,111
04MOY114	DeSilva Gates Construction	Tier 2 Engine Repower: 637D Scraper: Unit #117305	\$177,594	1	4.68	0.18	\$3,202
04MOY45	Independent Construction	Tier 2 Engine Repower: 637D Scraper: Unit #37020	\$193,094	1	5.06	0.20	\$3,218
04MOY100	Independent Construction	Tier 1 Engine Repower: 657E Scraper: Unit #57034	\$146,023	1	4.50	0.08	\$3,236
04MOY62	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51012	\$112,352	1	2.56	0.13	\$3,441
04MOY71	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51022	\$112,352	1	2.55	0.13	\$3,459
04MOY57	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51006	\$112,352	1	2.50	0.12	\$3,534
04MOY50	Independent Construction	Tier 2 Engine Repower: 641B Scraper: Unit #41012	\$112,352	1	2.49	0.12	\$3,543
04MOY42	Independent Construction	Tier 2 Engine Repower: 637D Scraper: Unit #37014	\$193,094	1	4.44	0.17	\$3,668
04MOY60	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51010	\$112,352	1	2.40	0.12	\$3,682
04MOY36	Independent Construction	Tier 2 Engine Repower: 637D Scraper: Unit #20011	\$193,094	1	4.37	0.17	\$3,728
04MOY109	DeSilva Gates Construction	Tier 2 Engine Repower: 633D Scraper: Unit #108513	\$103,849	1	2.31	0.09	\$3,809
04MOY111	DeSilva Gates Construction	Tier 2 Engine Repower: 633D Scraper: Unit #108515	\$103,849	1	2.23	0.09	\$3,932
04MOY41	Independent Construction	Tier 2 Engine Repower: 637D Scraper: Unit #37008	\$193,094	1	4.10	0.16	\$3,970

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04MOY63	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51014	\$112,352	1	2.20	0.11	\$4,020
04MOY106	DeSilva Gates Construction	Tier 2 Engine Repower: 633D Scraper: Unit #108507	\$103,849	1	2.09	0.08	\$4,204
04MOY110	DeSilva Gates Construction	Tier 2 Engine Repower: 633D Scraper: Unit #108514	\$103,849	1	2.02	0.08	\$4,355
04MOY108	DeSilva Gates Construction	Tier 2 Engine Repower: 633D Scraper: Unit #108512	\$103,849	1	1.98	0.08	\$4,451
04MOY07	Sentinel Cremations	Repower two main engines in vessel Naiad	\$77,335	2	0.30	0.11	\$4,575
04MOY74	Independent Construction	Tier 2 Engine Repower: 651B Scraper: Unit #51025	\$112,352	1	1.90	0.09	\$4,645
04MOY126	Coppock Trucking	Repower one heavy-duty truck	\$51,895	1	0.90	0.04	\$4,671
04MOY05	Morning Star Sportfishing	Repower main engine in fishing boat Morning Star	\$45,000	1	0.92	0.04	\$4,733
04MOY120	Bay Leasing (Solano Garbage)	Replace one refuse collection roll-off truck with an LNG truck	\$6,679	1	0.16	0.00	\$4,884
04MOY38	Independent Construction	Tier 2 Engine Repower: 637D Scraper: Unit #37005	\$193,094	1	3.21	0.13	\$5,065
04MOY122	Harold Smith and Son, Inc.	Repower one concrete delivery mixer: Unit #117	\$44,072	1	0.77	0.02	\$5,209
04MOY01	Stanley Ranch	Repower one irrigation pump with Tier 2 engine	\$15,000	1	0.41	0.02	\$5,274
04MOY47	Independent Construction	Tier 2 Engine Repower: 641B Scraper: Unit #41003	\$112,352	1	1.65	0.08	\$5,344
04MOY40	Independent Construction	Tier 2 Engine Repower: 637D Scraper: Unit #37007	\$193,094	1	2.79	0.11	\$5,838
04MOY24	FV Hali	Repower two main engines in fishing boat Hali	\$90,000	2	0.60	0.12	\$5,916
04MOY16	Sea Turtle Sportfishing	Repower two main engines in fishing boat Sea Turtle	\$48,000	2	0.54	0.07	\$6,038
04MOY140	Waste Management, Inc	Install Level 3 PM/NOx emission control systems on 10 refuse transfer trucks	\$190,000	10	4.20	0.22	\$6,472
04MOY37	Independent Construction	Tier 2 Engine Repower: 637D Scraper: Unit #37002	\$193,094	1	2.31	0.09	\$7,060
04MOY92	Independent Construction	Tier 1 Engine Repower: 657E Scraper: Unit #57019	\$146,023	1	2.40	0.00	\$7,119
04MOY97	Independent Construction	Tier 1 Engine Repower: 657E Scraper: Unit #57025	\$146,023	1	2.33	0.00	\$7,332
04MOY12	Angel Island-Tiburon Ferry	Repower two main propulsion engines in ferry Tamalpais	\$137,000	2	0.82	0.22	\$7,402
04MOY139	Schwan's Home Service, Inc.	Replace four delivery trucks with propane trucks	\$18,900	4	0.28	0.02	\$7,923
04MOY101	Independent Construction	Tier 1 Engine Repower: 657E Scraper: Unit #57036	\$146,023	1	2.13	0.00	\$8,021
04MOY93	Independent Construction	Tier 1 Engine Repower: 657E Scraper: Unit #57020	\$146,023	1	2.11	0.00	\$8,097
04MOY39	Independent Construction	Tier 2 Engine Repower: 637D Scraper: Unit #37006	\$193,094	1	1.92	0.08	\$8,461
04MOY88	Independent Construction	Tier 1 Engine Repower: 657E Scraper: Unit #57015	\$146,023	1	2.01	0.00	\$8,500
04MOY96	Independent Construction	Tier 1 Engine Repower: 657E Scraper: Unit #57024	\$146,023	1	1.89	0.00	\$9,040
04MOY104	Independent Construction	Tier 2 Engine Repower: 825C Compactor: Unit #44024	\$150,208	1	1.36	0.05	\$9,299
04MOY11	Barneich Commerical Fishing	Repower main propulsion engine in fishing boat Gar	\$12,500	1	0.05	0.01	\$9,750
04MOY49	Independent Construction	Tier 2 Engine Repower: 641B Scraper: Unit #41010	\$112,352	1	0.82	0.04	\$10,775
04MOY105	Independent Construction	Tier 2 Engine Repower: 825C Compactor: Unit #44025	\$150,208	1	1.13	0.04	\$11,266
04MOY128	Chisholm Trail Transportation	Repower one heavy-duty truck	\$23,229	1	0.33	0.00	\$11,333
04MOY161	FedEx Freight	Install Level 3 PM/NOx emission control system on one delivery truck	\$19,000	1	0.29	0.02	\$11,616
04MOY194	Pleasanton Garbage Service	Install Level 3 PM/NOx emission control system on three Group 3 refuse collection trucks	\$31,500	3	0.36	0.06	\$11,990
04MOY91	Independent Construction	Tier 1 Engine Repower: 657E Scraper: Unit #57018	\$146,023	1	1.28	0.00	\$13,347
		Total	\$15,814,500	264	579	35	

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